



EXPRESS MAIL NO. EV336594556US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ragina Naidu
Application No. : 10/695,416
Filed : October 27, 2003
For : SEMI-SYNTHESIS OF TAXANE INTERMEDIATES
FROM 9-DIHYDRO-13-ACETYLBACCATIN III

Art Unit : 1625
Docket No. : 740082.407
Date : March 26, 2004

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicant wishes to make known to the U.S. Patent and Trademark Office the references set forth on the attached Form PTO-1449. Applicant notes that since the application filing date is after June 30, 2003, copies of the cited U.S. patents and published patent applications are not required and accordingly have not been provided. Copies of all other cited references are enclosed. As to any reference cited, applicant does not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserves the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicant's duty to disclose all information he/she is aware of which is believed relevant to the examination of the above-identified application, applicant believes that his/her invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicant believes this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC



Karl R. Hermanns

Registration No. 33,507

Enclosures:

Form PTO-1449
Cited References (14)
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Sheet 1 of 5

FORM PTO-144 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 740082.407	APPLICATION NO. 10/695,416
				APPLICANT Ragina Naidu	
				FILING DATE October 27, 2003	GROUP ART UNIT 1625
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)					

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,814,470	03/21/89	Colin et al.	514	449	
	AB	4,924,011	05/08/90	Denis et al.	549	510	
	AC	4,924,012	05/08/90	Colin et al.	549	510	
	AD	4,960,790	10/02/90	Stella et al.	514	449	
	AE	5,136,060	08/04/92	Holton	549	510	
	AF	5,175,315	12/29/92	Holton	549	510	
	AG	5,200,534	04/06/93	Rao	549	510	
	AH	5,229,526	07/20/93	Holton	549	213	
	AI	5,254,703	10/19/93	Holton	549	510	
	AJ	5,336,785	08/09/94	Holton	549	214	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	0 253 738 B1	01/31/90	EP (+ Abstract in English)		
	AL	0 617 018 B1	10/01/03	EP		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	Cammercon et al., "Improved Protection and Esterification of a Precursor of the Taxotere and Taxol Side Chains," <i>Tetrahedron</i> 33(36):5185-5188,1992.
AN	Cravellee et al., "Methyleniminium Salts as Acylating Agent--One Step Synthesis of Baccatin III from 10-Deacetyl baccatin III with High Selectivity," <i>Tetrahedron Letters</i> 39:4263-4266, 1988.
AO	Damen et al., "Lanthanide Trifluoromethanesulfonate Catalysed Selective Acylation of 10-Deacetyl baccatin III," <i>Tetrahedron Letters</i> 39: 6081-6082, 1998.
AP	Denis et al., "A Highly Efficient Practical Approach to Natural Taxol," <i>J. Am. Chem. Soc.</i> 110: 5917-5919, 1988

EXAMINER	DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	5,350,866	09/27/94	Holton et al.	549	510	
	BB	5,352,806	10/04/94	Gunawardana et al.	549	510	
	BC	5,367,086	11/22/94	Rao	549	510	
	BD	5,405,972	04/11/95	Holton et al.	549	214	
	BE	5,412,116	05/02/95	Murray et al.	549	379	
	BF	5,416,225	05/16/95	Danishefsky et al.	549	341	
	BG	5,422,364	06/06/95	Nicolaou et al.	514	449	
	BH	5,430,160	07/04/95	Holton	549	510	
	BI	5,466,834	11/14/95	Holton	549	510	
	BJ	5,468,769	11/21/95	Klein et al.	514	449	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BL		Fang et al., "Preliminary Studies on the Acylation of 10. β -OH and 7. α -OH in 7-epi-10-deacetylpaclitaxel," <i>Chin. Chem. Lett.</i> 8(10), Abstract only, 1997.
BM		Georg et al., "Synthesis of Biologically Active Taxol Analogues with Modified Phenylisoserine Side Chains," <i>J. Med. Chem.</i> 35:4230-4237, 1992.
BN		Holton et al., "Selective Protection of the C(7) and C(10) Hydroxyl Groups in 10-Deacetyl Baccatin III," <i>Tetrahedron Letters</i> 39:2883-2886, 1998.
BO		Kant et al., "A Chemoselective Approach to Functionalize the C-10 position of 10-deacetyl baccatin III. Synthesis and Biological Properties of Novel C-10 Taxol Analogs," <i>Tetrahedron Letters</i> 35(31): 5543-5546, 1994.
BP		Kanazawa et al., "Highly Stereocontrolled and Efficient Preparation of the Protected Esterification-Ready Docetaxel (Taxotere) Side Chain", <i>J. Org. Chem.</i> 59(6):1238-1240, 1994.

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	CA	5,470,866	11/25/98	Kingston et al.	514	376	
	CB	5,475,011	12/12/95	Ojima et al.	514	320	
	CC	5,478,854	12/26/95	Farina et al.	514	374	
	CD	5,489,589	02/06/96	Wittman et al.	514	232.8	
	CE	5,489,601	02/06/96	Holton et al.	514	337	
	CF	5,547,981	08/20/96	Greenwald et al.	514	449	
	CG	5,576,450	11/19/96	Bouchard et al.	549	510	
	CH	5,587,493	12/24/96	Bouchard et al.	549	510	
	CI	5,594,157	01/14/97	Gunawardana et al.	549	510	
	CJ	5,606,068	02/25/97	Mas	548	215	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	CK				

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CL	Klein et al., "Antitumor activity of 9(R)-dihydrotaxane analogs," <i>J. Med. Chem.</i> 38(9):1482-1492, April 1995.	
CM	McCarthy et al., "Antifungal activity of meridine, a natural product from the marine sponge <i>Corticium</i> sp," <i>J. Nat. Prod.</i> 55(11): 1664-1668, November 1992.	
CN	Magri et al., "Modified Taxols, 4 Synthesis and Biological Activity of Taxols Modified in the Side Chain," <i>Journal of Natural Products</i> 51(2): 298-306, 1988.	
CO	Ojima et al., "Efficient and Practical Asymmetric Synthesis of the Taxol C-13 Side Chain, N-Benzoyl-(2R,3S)-3-Phenylsoreine, and its Analogues via Chiral 3-Hydroxy-4-Aryl- β -Lactams Through Chiral Ester Enolate-Imine Cyclocondensation," <i>J. Org. Chem.</i> 56(5):1681, 1991	
CP	Ojima et al., "New and Efficient Approaches to the Semisynthesis of Taxol and its C-13 Side Chain Analogs by Means of the B-Lactam Synthon Method", <i>Tetrahedron</i> 48(34):6985-7012, 1992.	

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	DA	5,606,083	02/25/97	Bouchard et al.	549	510	
	DB	5,616,739	04/01/97	Mas et al.	549	510	
	DC	5,616,740	04/01/97	Klein et al.	549	510	
	DD	5,621,121	04/15/97	Commercon et al.	549	510	
	DE	5,646,176	07/08/97	Golik et al.	514	444	
	DF	5,654,447	08/05/97	Holton et al.	549	510	
	DG	5,654,449	08/05/97	Bouchard et al.	549	510	
	DH	5,670,658	09/23/97	Bastart et al.	549	214	
	DI	5,688,977	11/18/97	Sisti et al.	549	510	
	DJ	5,693,666	12/02/97	Chen et al.	514	444	
	DK	5,703,247	12/30/97	Kingston et al.	548	962	
	DL	5,705,508	01/06/98	Ojima et al.	514	320	
	DM	5,714,513	02/03/98	Holton et al.	514	449	
	DN	5,750,736	05/12/98	Sisti	549	510	
	DO	5,773,461	06/30/98	Wittman et al.	514	449	
	DP	5,780,653	07/14/98	Tao et al.	549	510	
	DQ	5,811,452	09/22/98	Ojima et al.	514	449	

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					YES	NO
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	EA	5,874,595	02/23/99	Damen et al.	549	510	
	EB	5,914,411	06/22/99	Sisti et al.	549	510	
	EC	5,965,752	10/12/99	Zamir et al.	549	510	
	ED	6,107,497	08/22/00	Sisti et al.	549	510	
	EE	6,147,234	11/14/00	Holton et al.	549	510	
	EF	6,175,023	01/16/01	Liu	549	510	
	EG	6,187,916	02/13/01	Ojima	540	354	
	EH	6,197,981	03/06/01	Liu	549	510	
	EI	5,218,553	04/17/01	Ojima	549	510	
	EJ	6,222,053	04/24/01	Zamir et al.	549	510	
	EK	6,225,463	05/01/01	de Vos et al.	540	357	
	EL	6,262,281	07/17/01	Swindell et al.	549	510	
	EM	6,307,088	10/23/01	Swindell et al.	560	27	
	EN	6,458,977	10/01/02	Holton	549	510	
	EO	6,479,678	11/12/02	Holton	549	510	
	EP	6,576,777	06/10/03	Zamir et al.	549	510	
	EQ	RE 34,277	06/08/93	Denis et al.	549	510	

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